

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

1 1. (Currently Amended) A method for use in a wireless communications network,
2 comprising:

3 sending, from a base station to a mobile station, at least one trigger parameter
4 corresponding to a trigger condition, the at least one trigger parameter comprising at least one of
5 a first parameter relating to power headroom increase at the mobile station, and a second
6 parameter relating to power headroom decrease at the mobile station;

7 in a reverse wireless link response to occurrence of the trigger condition, communicating
8 receiving in a reverse wireless link, information relating to status of a buffer in [[a]] the mobile
9 station and receiving information relating to a data rate used by the mobile station when
10 transmitting over the reverse wireless link; and

11 in the reverse wireless link, communicating information relating to a data rate used by the
12 mobile station when transmitting over the reverse wireless link.

1 2. (Currently Amended) The method of claim 1, wherein communicating receiving
2 information relating to the status of the buffer comprises communicating receiving information
3 relating to an occupancy of a data buffer.

1 3. (Currently Amended) The method of claim 1, wherein communicating receiving
2 information relating to the data rate comprises communicating receiving information relating to a
3 maximum data rate supportable by the mobile station over the reverse wireless link.

1 4. (Currently Amended) The method of claim 3, wherein communicating receiving
2 information relating to the maximum data rate supportable by the mobile station comprises
3 communicating receiving a traffic-to-pilot ratio to indicate the maximum data rate supportable by
4 the mobile station.

1 5. (Currently Amended) The method of claim 1, further comprising detecting whether ~~[[a]]~~
2 the trigger condition has occurred,
3 ~~wherein communicating the information relating to the status of the buffer and the~~
4 ~~information relating to the data rate is performed in response to occurrence of the trigger~~
5 ~~condition.~~

1 6. (Cancelled)

1 7. (Currently Amended) The method of claim ~~[[6]]~~ 1, further comprising sending at least
2 one other trigger parameter corresponding to at least one other trigger condition, wherein the at
3 least one other parameter comprises a parameter relating to ~~wherein detecting whether one of~~
4 ~~plural trigger conditions has occurred comprises detecting for the following condition: a~~
5 maximum time duration between communicating the information relating to the status of the
6 buffer and the information relating to the data rate has elapsed, and a buffer to contain data to
7 ~~transmit over the reverse wireless link is not empty.~~

1 8. – 9. (Cancelled)

1 10. (Currently Amended) The method of claim 1, wherein ~~communicating~~ receiving the
2 information relating to a status of a buffer in the mobile station and information relating to a data
3 rate over the reverse wireless link comprises ~~communicating~~ receiving the information relating to
4 the status of the buffer and information relating to the data rate in a reverse request message.

1 11. (Currently Amended) The method of claim 10, wherein ~~communicating~~ receiving the
2 reverse request message comprises ~~communicating~~ receiving the reverse request message on a
3 reverse request channel (R-REQCH).

1 12. (Currently Amended) The method of claim 11, wherein ~~communicating~~ receiving the
2 reverse request message comprises ~~communicating~~ receiving the reverse request message
3 containing a first field to represent a maximum traffic-to-pilot ratio, and a second field to
4 represent a buffer status.

1 13. (Currently Amended) The method of claim 12, wherein ~~communicating~~ receiving the
2 reverse request message comprises ~~communicating~~ receiving the reverse request message
3 containing a third field having an identifier to represent at least one of a service instance and a
4 service class associated with the reverse request message.

1 14. (Currently Amended) An article comprising at least one storage medium containing
2 instructions that when executed cause a ~~system~~ mobile station in a wireless communications
3 network to:

4 detect that a trigger condition has occurred, the trigger condition comprising one of a
5 power headroom increase at the mobile station exceeding a first value, and a power headroom
6 decrease at the mobile station exceeding a second value;

7 communicate send, in a reverse wireless link in response to detecting the trigger
8 condition, a message having at least two fields that contain information indicative of a data rate
9 for transmission by ~~[[a]]~~ the mobile station in the reverse wireless link, the information based ~~at~~
10 ~~least on~~ at least one of buffer occupancy and power headroom.

1 15. (Currently Amended) The article of claim 14, wherein ~~communicating~~ sending the
2 message in the reverse wireless link comprises ~~communicating~~ sending a message having a first
3 field containing data rate information and a second field for indicating whether the data rate
4 information in the first field is based on buffer occupancy or power headroom.

1 16. (Currently Amended) The article of claim 14, wherein ~~communicating~~ sending the
2 message in the reverse wireless link comprises ~~communicating~~ sending a message having a first
3 field containing power-related data rate information and a second field containing buffer-related
4 data rate ~~information~~ information.

1 17. (Currently Amended) The article of claim 14, wherein ~~communicating~~ sending the
2 message in the reverse wireless link comprises ~~communicating~~ sending a message having a first
3 field containing power-related data rate information and a second field containing buffer
4 occupancy information.

1 18. (Currently Amended) The article of claim 14, wherein ~~communicating~~ sending the
2 message in the reverse wireless link comprises ~~communicating~~ sending a message having a first
3 field containing traffic-to-pilot ratio information, a second field containing buffer occupancy
4 information, and a third field containing an identifier of at least one of a service instance and a
5 service class associated with the buffer occupancy information.

1 19. (Currently Amended) The article of claim 14, wherein ~~communicating~~ sending the
2 message in the reverse wireless link comprises ~~communicating~~ sending a reverse request
3 message on a code-division multiple access (CDMA) 2000 reverse request channel (R-REQCH).

1 20. (Currently Amended) A mobile station comprising:
2 an interface to communicate with a base station over a wireless link;
3 a buffer to store data for communication over the wireless link to the base station; and
4 a controller to send information relating to a status of the buffer and information relating
5 to a data rate over the wireless link to the base station in response to a trigger condition, the
6 trigger condition comprising a current power headroom differing from a previous power
7 headroom by more than a predetermined amount.

1 21. (Original) The mobile station of claim 20, wherein the controller is adapted to send data
2 in the buffer on a reverse packet data channel (R-PDCH).

1 22. (Original) The mobile station of claim 21, wherein the controller is adapted to send the
2 information relating to the status of the buffer and information relating to the data rate over the
3 wireless link in a reverse request message on a reverse request channel (R-REQCH).

1 23. (Original) The mobile station of claim 22, wherein R-REQCH is a code-division
2 multiple access (CDMA) 2000 R-REQCH.

1 24. (New) The method of claim 1, wherein the trigger condition corresponds to an amount of
2 power headroom increase at the mobile station being greater than a value of the first parameter,
3 or an amount of power headroom decrease being greater than a value of the second parameter.

1 25. (New) The article of claim 14, wherein the instructions when executed cause the mobile
2 station to receive a first trigger parameter containing the first value and a second trigger
3 parameter containing the second value.

1 26. (New) The article of claim 25, wherein the instructions when executed cause the mobile
2 station to receive at least one other trigger parameter corresponding to another trigger condition,
3 the at least one other trigger parameter indicating a maximum duration between sending the
4 message, the message also being communicated by the mobile station in response to occurrence
5 of the at least one other trigger condition.

1 27. (New) The mobile station of claim 20, the interface to receive, from the base station, at
2 least one trigger parameter indicating the predetermined amount.